

16 Aug. 82

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REPORT OF AUDIT
Office of Data Processing
For the Period
1 October 1980 to 30 April 1982

Summary

1. Financial and logistical controls, procedures and records of the Office of Data Processing (ODP) were, except as noted below, in accordance with Agency regulations. Prior audit recommendations, with the exception of one that pertains to disaster recovery, were satisfactorily resolved.

2. The ODP/Deputy Directorate for Applications is being reorganized to improve efficiency, effectiveness and control over development and maintenance of computer systems. The audit indicated that considerable benefit should accrue to the Organization from these efforts and from the resulting implementation of new and revised standards for quality assurance in the development and maintenance function. Employees were found to be highly committed to the objectives of the reorganization. The ODP is to be commended for this endeavor to improve services.

Never heard of this unit — We must bite the bullet and come up with a name other than "Applications"

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DRAFT

3. This report includes comments and recommendations concerning the following:

- ° reducing the number of seldom used and unneeded tapes in storage to alleviate overcrowding
- ° recording additional information in the tape destruction process to improve security
- ° strengthening control to ensure that only authorized personnel can check out tapes
- ° completing a written disaster recovery plan to reduce service interruption in emergencies
- ° discontinuing giving out passwords over the telephone to improve security
- ° requesting implementation of a new property control system to improve efficiency, and
- ° updating hand receipts as required to improve control over property on loan.

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Scope and Purpose

4. The audit included a review of administrative functions to evaluate the effectiveness of controls and procedures and to assure compliance with Agency regulations. Financial and logistical transactions were tested to determine that documentation, approvals and certifications were in accordance with applicable accounting and reporting requirements and to ensure that expenditures were within the scope of authorized activities.

5. The audit also included reviews and tests in both computer centers to determine that established procedures and other documentation were sufficient, adequate and followed to protect against potential security and safety risks.

6. A survey of ODP applications was performed to review the reorganization and to identify the standards and procedures to be used in the forthcoming quality assurance program. Because the reorganization is still in process, no tests were conducted to determine compliance with the standards and procedures.

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Background

25X9 7. ODP provides a central computer service to satisfy automatic data processing (ADP) requests from Agency components and to satisfy Intelligence Community requirements as assigned. In performing this service, ODP has as of 30 April 1982 a personnel ceiling of to:

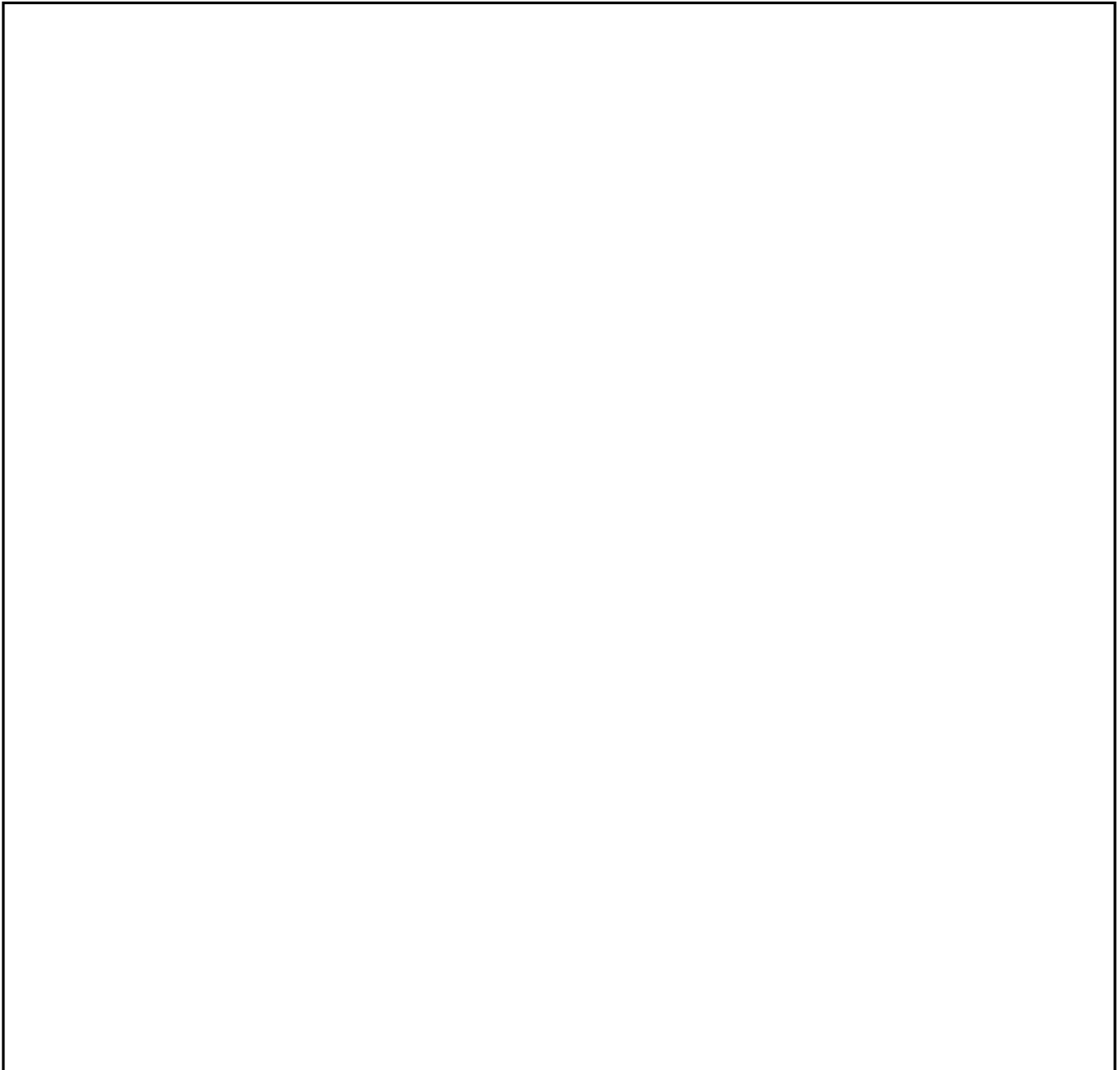
- ° review and coordinate Agency proposals for the acquisition of computer hardware (including word processing equipment), software, and services
- ° operate two computer centers (Ruffing and Special) to provide facilities and services for batch and interactive computer processing, data base management, and on-line information storage and retrieval, and
- ° perform analysis of requirements for ADP services, develop and implement application systems, perform maintenance and production control of completed application programs.

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DRAFT 25X1



Detailed Comments

Tape Library Capacity

10. Opportunity exists to provide needed storage space in the Ruffing Center tape library by reducing the number of

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SECRET

DRAFT

seldom used and unneeded tapes in storage. Lack of storage space for about 38,000 tapes requires storing approximately 4,500 of them adjacent to the library in the computer center. This increases the already overcrowded conditions in the center and decreases security since these tapes are not safeguarded by the library's additional fire protection and more central location for improved monitoring. While the library may ultimately need to be enlarged, it may be possible to store all necessary tapes in the library by eliminating tapes not requiring current access.

11. Although ODP has a policy to archive tapes not used in six-months, space is wasted by not strictly enforcing the policy and by honoring requests to retain such tapes in the library beyond that time. It appears that thousands of these tapes could be purged from the library. For example, of tapes expiring after eleven years, audit identified 3,492 that were unused in the previous twelve months, while 7,718 were unused in the previous six-months. In total, twenty-five per cent, or 8,600 of all ODP tapes were unused in the previous six-month period tested.

12. This suggests some non-compliance with the six-month retirement policy, possibly because ODP honors user requests to retain such tapes in the library beyond that period. The retirement policy by itself, if more strictly enforced by

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retiring unused tapes to archives, could conceivably provide the space needed in the library to eliminate storing tapes in the computer center.

13. While tape reductions are possible by enforcing the retirement policy, even further reductions are possible by not automatically storing tapes unneeded during the initial six-month storage period. Archival action on new tapes is taken only after an initial, automatic six-month storage period to provide time for use-patterns to develop. In the meantime, space is wasted by automatically storing thousands of these tapes. Also, librarians report that users waste space in both Headquarters and archives by creating many unnecessary tapes and tapes with over-long retention periods, thus providing even more opportunity for reductions.

14. Reductions in such tapes are currently not possible since no requirement exists to identify and retire them before the expiration of the six-month storage period. A reasonable requirement to facilitate reductions could entail ADP Control Officers identifying such tapes on present Tape List inventories already forwarded weekly to them for information. Since no action is presently required on these lists, required feedback identifying suspect tapes on a

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continuing basis could provide the impetus for retiring them to archives or scratching them on a more current basis.

15. Incentive for compliance with such a procedure could involve requiring ADP Control Officers to certify to their superiors the necessity for storing tapes remaining on respective lists and for using long-term expiration dates. Other possibilities for reductions include requiring special approval to create tapes with long-term expiration dates together with system controls to automatically restrict their creation without these approvals.

16. ODP should consider initiating these or other appropriate procedures to help reduce overcrowding. Although ODP reviewed this area about two years ago, another review appears to be in order in accordance with Since 25X1A storing unused tapes is a luxury not easily afforded, ODP officers indicated a willingness to again look into this matter for possible improvements.

Recommendation #1: Review tape handling procedures to alleviate overcrowding by reducing the number of seldom-used and unneeded tapes in storage, and consider:

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- ° increasing compliance with the six-month tape retirement policy
- ° requiring ADP Control Officers to provide feedback identifying suspect tapes
- ° requiring ADP Control Officers to certify in writing the necessity for storing tapes and using long-term expiration dates and,
- ° requiring special approval to create tapes with long-term expiration dates.

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Tape Destruction Controls

17. Controls and security can be improved in the Ruffing Center tape destruction process by recording additional information in the tape destruction records. While records contain appropriate information on tapes initially packed by the library for destruction, they contain no information on tapes subsequently transported from the library, degaussed and burned. Since destruction activities expose tapes to compromise outside the Ruffing Center, procedures should be revised to add assurance that tapes earmarked for destruction are actually destroyed. In addition to reflecting the initial preparation process, the records should be expanded to reflect pertinent information on the entire destruction process. This should not entail new recordkeeping but only a change in the records being kept. Present records do not reflect this information due to library personnel being unfamiliar with needed controls. Details for improving recordkeeping were discussed with library personnel and they agreed to consider audit suggestions in their quest to identify needed revisions.

Recommendation #2 : Revise tape destruction records to include information on the entire tape destruction process.

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DRAFT

Tape Check-Out Control

18. Strengthened control is needed to ensure that only authorized personnel are allowed to check out ODP tapes from both the Ruffing and Special Computer Centers. Anyone with a badge can presently check out a tape by merely identifying the reel number and dataset name. While this appears to be an adequate control, compromise is possible as various computer listings contain this information making it available to unauthorized personnel.

19. Improved security would entail matching a badge number or name to computer system information that authorizes check-out privileges. Such a control is available in the Access Control Facility-2 (ACF-2) system presently used by ODP to verify authorization to remove category Y and Z tapes. Although ODP tapes are subject to withdrawal, they have not been accorded this control because they are subject to considerably less frequent withdrawal than are Y and Z tapes. We were informed that since ACF-2 is already being used to control some tapes, it could be used to control all tapes and improve security.

Recommendation #3 : Improve security by implementing ACF-2 procedures for withdrawal of ODP tapes from tape libraries.

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DRAFT

Disaster Recovery Plan

20. Due to resource constraints, ODP has failed to develop a comprehensive disaster recovery plan, despite efforts to comply with past audit recommendations in this area. Although ODP still intends to eventually develop a comprehensive disaster recovery plan, their efforts to date indicate that it will be expensive, difficult and therefore perhaps less comprehensive than originally envisioned. Meanwhile, ODP should consider a more modest plan, but still capable of being effective.

21. A more modest plan at more acceptable cost and effort can still minimize the magnitude of service interruption in an emergency situation. Since ODP already knows many of the actions to take in an emergency, these actions should be consolidated into a single planning document. Topics to cover include: requirements in notifying management, vendor and other personnel needed in an emergency; requirements in effecting agreements with vendors regarding emergency assistance and with Agency components regarding applications; requirements in technical areas; and similar considerations.

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DRAFT

22. The objective of such a plan would be to implement a practical and workable disaster recovery program within the framework of resource constraints. Because of Agency dependence on data processing, it is important that such a plan be developed.

Recommendation #4: Develop a disaster recovery plan that minimizes risk within resource constraints.

Password Control

23. Customer Services Staff improved security during the audit when it ceased services giving out passwords over the secure telephone. Although passwords were being provided over secure lines to users requesting them, the inability to properly identify the caller presented possibilities for unauthorized access to the system. After learning of this, ODP management gave assurance that the practice would stop.

24. This was being done as a convenience to users who requested their passwords over the ^{secure} telephone after having forgotten them. Discontinuance of this service will result

4

Approved For Release 2005/07/28 : CIA-RDP90-00992R000100040002-5

SECRET

DRAFT

in some regrettable but necessary inconvenience to users. ODP indicated that in the future passwords will only be given out in person after proper identification is presented. They also explained that a procedure may be developed to securely provide this service over computer terminals. No recommendation is thus considered necessary.

Property Procedures

25. ODP logistics personnel maintain duplicate automated and manual records on which to record Type II Property transactions. While the automated portion augments the manual system, supporting duplicate records is costly and time consuming. Since ODP expends considerable effort in maintaining one of the largest property accountability systems in the Agency, a single system would be more efficient and effective. Such a system exists in the Agency Standard Automated Property System (ASAPS) recently implemented by the Office of Logistics to satisfy requirements for Type II property accounting and intended as a replacement for existing systems. ASAPS would provide an online capability and would replace many of the labor intensive and paper dependent processes now in use. Although implementing ASAPS would entail data conversion and orientation problems, the

4

SECRET

DRAFT

long term benefits of the system should outweigh these initial disadvantages. ODP agreed to consider replacing its present property system with ASAPS.

Recommendation #5: Request implementation of ASAPS as a replacement for the property records currently in use.

Property on Loan Controls

26. Property items on loan for which Engineering Division is responsible are not controlled in accordance with regulations. Property on loan at the time of audit consisted of seventy-one computer terminals and related equipment. Improvement is needed in the inventory and record-keeping procedures used to control this property: The division conducts the annual inventory of property on loan over the telephone with loanees in lieu of having them re-sign hand receipts. Also, the division could not initially locate twenty-nine hand receipts for audit; apparently the receipts were lost, misplaced or never obtained.

27. Hand receipts for property on loan are required by regulation to be obtained and updated by signature at least

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annually, preferably in conjunction with the physical inventory. During the audit the division resolved the question of missing hand receipts by finding them, obtaining them from loanees or effecting return of the property involved. The question of not updating hand receipts by signature or effecting return of the property remains to be resolved. Although Engineering Division was fully aware of the requirement for obtaining and maintaining hand receipts, they were not fully aware of the requirement for obtaining annual signatures on hand receipts. While they prefer using the convenience of the telephone to update hand receipts, they agreed during the audit to update them in the future as required. A recommendation on obtaining and maintaining hand receipts is not necessary since this requirement is understood and was met during the audit.

Recommendation #6: Update hand receipts for property on loan by obtaining signatures at least annually or effect return of the property involved.

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TRANSMITTAL SLIP		DATE 16 AUG 1982
TO: C/MS/ODP		
ROOM NO.	BUILDING	
REMARKS: Draft of recent Audit Report. Please review and phone or send comments to EXO or [] by COB 20 August.		
FROM: []		
01 D/ODP/DDA		
ROOM NO.	BUILDING	2-5-60 HQS. []

FORM NO. 241
1 FEB 55

REPLACES FORM 36-8
WHICH MAY BE USED.

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